

# MAGNETIC STORM SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS (PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS)

November 2002

Storm Sudden Commencements (SSC)			Solar Flare Effects (sfe)		
Day	Time	Quality: Station Group*	Day	Begin-End	Station(s)
09	1751	A: HER	01	1134-1144	NGK
		B: NUR NAG* GUI	08	0930-1002	GUI
		C: NGK* VAL* BDV* CLF HRB* EBR SPT	09	1310-1342	NGK BDV
09	1849	A: NAG* SPT*	18	0203-0242	MMB KAK HTY KNY
		B: VAL* CLF* HRB* EBR* GUI HYB ETT	20	1108-1115	NGK (See SSC)
		C: SOD* NGK* BDV* GCK HTY	24	0810-0824	NGK
11	1231	B: HRB HYB ETT			
		C: NGK* GCK			
20	1108	B: SOD* MMB KAK KNY			
		C: BDV HRB GCK EBR GUI HYB ETT (SFE: NGK)			
26	2150	A: VAL* NAG* SPT* GUI* HER*			
		B: NUR CLF HRB* GCK MMB EBR* KAK HTY* KNY			
		C: NGK BDV*			

## REPORTING OBSERVATORIES (up to the 7th of January 2003):

SOD NUR NGK VAL BDV CLF HRB NAG GCK MMB EBR SPT KAK HTY KNY GUI HYB ETT HER

Three-letter codes identify each observatory. Reporting stations have been grouped by the character of the observed event. The letter A means very remarkable; B means fair, but unmistakable; C means very poor, doubtful; and - means no quality figure given. The \* means that the SSC, at least in one component, was preceded by a small reversed impulse. SSCs are given only when five or more stations report the event. SFEs include all reports. If an SFE is confirmed by solar or ionospheric events, the name of the station is identified with a plus sign (+).

Note that we have included data of the Antarctic Station LIVINGSTONE (62° 39' 44" S, 60°23' 41" W) -- Luis F.